

FALMOUTH NAVIGATORS

SCHOOL: FMS

SUBJECT: STEM / Engineering and Technology

	Sept - Nov	Dec - Feb	Mar - April	May - June
Grade 6 Course Outline	Both Teachers Teaching Google Applied Digital Skills - Month of September Programming - Computer Science For All SF Grade 6 Curriculum	*Degen (Robotics Focus) Robotics - Coding to program robots. Design and build various challenges to use with the robots after programming. Introduction to Tinkercad 3D Designing Mini Project	*Mr. Davidson - (Design and Tool Focus) Sketchup 3D Design Project Building and Design STEM Challenge - Tool technology and computational thinking.	*Note: 6th grade students will swap Degen and Davidson ½ way through the year to have a broader experience with aspects of computer Science.
	Degen ½ Year Swap with Mr. Davidson	Davidson ½ Year Swap		

Grade 7 Course Outline	Google Applied Digital Skills - Engineering Design Solutions Process STEM - Graphic Design with Canva Lego Prime Robotics Design and Build STEM Challenges	Tool Safety - 2 weeks Engineering: Combination of tool tech and computational thinking. The Missing Piece project. (3 weeks) 3D Design: Solving real world problems using precision measuring tools and showing understanding of tolerances.	* 7th and 8th Grade students have 1 term with each STEM teacher.	
Grade 8 Course Outline 8th Grade STEM	Google Applied Digital Skills Engineering Design Process Changemakers - Solving Problems for the Community VEX Robotics Design and Build STEM Challenges	Tool Safety - 2 weeks Engineering Challenge: Tool tech and computational thinking.	* 7th and 8th Grade students have 1 term with each STEM teacher.	